

NETEXT WG

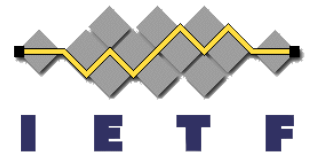
IETF 82

Service Selection for Mobile IPv6

RFC5149bis

WEDNESDAY, November 16, 2011

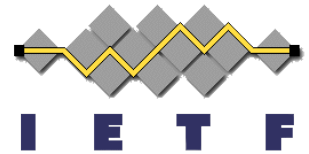
Jouni Korhonen



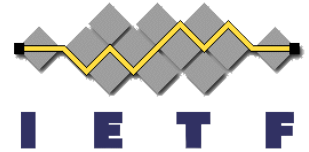
Background

- RFC5149 was defined for RFC6275 (MIPv6) and RFC5213 (PMIPv6).
- There are known implementations for PMIPv6 (yes, live deployments and multiple vendors).
- RFC5149 has few areas that the authors think need enhancing & clarifications.
- RFC5149 is Informational, however the authors feel it should already be Standards Track.

RFC5149bis – change summary

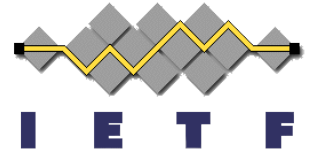


- Echoing the Service Selection option in (P)BAs – this is what running code does.
- Updates to RFC5213 BCE lookup considerations. The Service Selection is used as one lookup key – this is what running code does.
- New Status Code: MISSING_OR_UNKNOWN_SERVICE.
 - Different from SERVICE_AUTHORIZATION_FAILED, which is not a good fit for a case where the requested service is not known to the HA & LMA – this is what running code does.
- Updating the document category from Informational to Standards Track.
 - Multiple implementations, deployed, operation experience, ...



For [discussion]

- Some deployments encode the Service Selection Identifier field using RFC1035 style domain name encoding.. should that be described somehow? Current “standard” encoding is UTF-8.
- How to extend Identifier with an additional “index” for a case where:
 - The same service is accessed multiple times using the same Identifier name to configure multiple prefixes; example 2x “Internet”. The index allows to distinguish between “services” when prefix is not available (handoff).
 - This was proposed at the early stages of RFC5149 but removed. However, it is not trivial to add such “index” now (backward compatibility).
 - Existing deployments have such but those chose not to “decorate” the Identifier and instead use RFC5094 VSMs.



Questions & Next Steps

- Adopt as a WG document?